Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.	(Currently Amended) A modified-polypeptide human immunodeficiency virus
type 1 (HIV-1) gp41 polypeptide, comprising:
	an immunodominant region (IDR) of gp41,
	a N-helix region of gp41,
	a C-helix region of gp41, and
	a connecting loop comprising a hydrophilic synthetic linker between the N-
and C-helices	of a gp4l-ectodomain of HIV-1, the connecting loop comprising a linker
fragment, the	linker replacing amino acids 599-610 of gp41, the numbering scheme being
based upon the prototypic isolate HIV-1 HxB2,	
	wherein the linker fragment is configured to:
	maintain a native conformation of an interaction between the N- and C
-helices, and	
	have a hydrophilicity that provides a soluble and stable trimeric form to
said modified	polypeptide.

- 2. (Currently Amended) The modified polypeptide according to claim 1, wherein said linker replaces all or a part of a wildtype oligopeptide deleted from the connecting loop between the N- and C- helices.
- 3. (Currently Amended) The modified polypeptide according to claim 1, wherein said linker replaces amino acid residues 603 to 615 60 to 71 of SEQ ID NO:1SEQ ID NO 1.
- 4. (Currently Amended) The modified polypeptide according to claim 1, wherein said linker replaces amino acid residues—530 to 542 61 to 72 of SEQ ID NO:14SEQ ID NO 14.

- 5. (Previously Presented) The modified polypeptide according to claim 2, wherein said deleted wildtype oligopeptide has at least 10 amino acid residues.
- 6. (Previously Presented) The modified polypeptide according to claim 1, wherein said linker is an oligopeptide.
- 7. (Currently Amended) The modified polypeptide according to claim 6, wherein most of the amino acid residues of the linker-are comprises a majority of hydrophilic amino acid residues.
- 8. (Currently Amended) The modified polypeptide according to claim 1, wherein the linker comprises the amino acid sequence set forth in <u>SEQ ID NO:2SEQ ID NO-2</u>.
- 9. (Currently Amended) The modified polypeptide according to claim 1, wherein the immunodominant region-has is modified to incorporate at least one mutation-that prevents a cross reaction of a B-type cell and/or of a T-type cell with to eliminate or reduce an auto-immune response against a host protein.
- 10. (Previously Presented) The modified polypeptide according to claim 9, wherein the mutation prevents cross reaction with IL-2.
- 11. (Previously Presented) The modified polypeptide according to claim 9, wherein said mutation is located in a sequence selected from the group consisting of the sequences set forth in SEQ ID NOs: 3-6.
 - 12. (Canceled)
- 13. (Currently Amended) The modified polypeptide according to claim 1, wherein it the modified peptide is selected from the group consisting of the polypeptides set forth in SEQ ID NOs:8 and 17-20SEQ ID NO 8, SEQ ID NO 17, SEQ ID NO 18, SEQ ID NO 19, and SEQ ID NO 20.
- 14. (Currently Amended) The modified polypeptide according to claim 1, wherein it the modified peptide is the polypeptide set forth in SEQ ID NO:8SEQ ID NO 8.

- 15. (Currently Amended) The modified polypeptide according to claim 1, wherein it the modified peptide is N-truncated with a length of deletion being of a size ranging by deleting from 8 to 15 amino acid residues at the N-terminal position.
- 16. (Currently Amended) The modified polypeptide according to claim 15, wherein-it the modified peptide is truncated-of by deleting at least 10 amino acid residues at the N-terminal position.
- 17. (Currently Amended) The modified polypeptide according to the claims 15, wherein it the N-truncated polypeptide is a polypeptide as set forth in SEQ ID NO:21SEQ ID NO:21.
- 18. (Withdrawn) A polynucleotide encoding the modified polypeptide according to claim 1.
 - 19. (Withdrawn) The polynucleotide of claim 18 which is DNA.
- 20. (Withdrawn-Currently Amended) The polynucleotide according to claim 18, wherein it is the polynucleotide set forth in <u>SEQ ID NO:7SEQ ID NO 7</u>.
- 21. (Withdrawn) An expression vector comprising at least a transcription promoter, a DNA segment encoding the modified polypeptide according to claim 1 and a transcription terminator.
- 22. (Currently Amended) A vaccine An immunogenic composition containing as an active ingredient a modified polypeptide as defined in claim 1.
- 23. (New) A modified human immunodeficiency virus type 1 (HIV-1) gp41 polypeptide, wherein the linker replaces amino acids 593-617 of gp41, the numbering scheme being based upon the prototypic isolate HIV-1 HxB2.